

505 PCC PAVEMENT REPLACEMENT

505.01 DESCRIPTION

Work consists of the cutting, removal and disposal of defective areas or other areas of existing PCC pavement, base, alley, driveway and alley entrances and the replacing with PCC meeting the requirements of the specifications for new construction of a similar type or as directed by the Chief Engineer.

505.02 MATERIALS

Portland Cement Concrete – [817, Class E](#)

Welded wire fabric – [812.01](#)

Tie rod assemblies and tie rods – [807.04](#)

Load transfer assemblies – [807.03](#)

Preformed expansion joint filler – [807.01](#)

Joint-sealing materials – [807.02\(A\)](#) or [\(B\)](#)

Impervious subgrade materials – [822.14](#)

Concrete Curing materials – [814](#)

Fly Ash – [801.05](#)

505.03 PROPORTIONING

The proportions of materials for concrete shall meet the requirements of [817](#). Adjustments may be made as provided in [501.03](#).

505.04 CONSTRUCTION REQUIREMENTS

Pavement replacement shall conform to the requirements of the specifications for new construction of a type similar to that being replaced with the following exceptions, changes or additions.

- (A) **PREPARATION FOR CONCRETE REPAIRS.** The replacement area shall be prepared by removing all necessary materials as directed by the Chief Engineer. The area shall be graded to the depth necessary to replace the pavement so that it will meet the requirements of the specifications for new construction of a similar type. If unsuitable material is discovered in the base course, it shall be removed and replaced with material conforming to [804.04](#). Measure and payment for the removal will be made under [202](#) and for the new material under [209](#).
- (B) **PLACING CONCRETE.** The edges of the concrete adjoining the repair shall be thoroughly cleaned prior to depositing fresh concrete against them. Wire fabric reinforcement meeting the requirements of [812.01](#) for the type pavement being repaired shall be used in the replacement of pavement, base and alley, if such pavement, base, or alley is reinforced or if directed by the Chief Engineer. Any damaged expansion joint

material in the area to be repaired shall be replaced with new material and shall conform in all respects as to type, quality, and method of installation to that of new construction.

- (C) **CUTTING TO A NEAT LINE.** The perimeter of all repair areas shall be cut to a neat line to a depth of 2 inches by means of a power saw.

505.05 MEASURE AND PAYMENT

- (A) **PORTLAND CEMENT CONCRETE PAVEMENT REPLACEMENT.** The unit of measure for PCC pavement, of the type and depth designated, will be the square yard. The actual number of square yards measured complete in place will be paid for at the contract unit price per square yard, which payment will include sawing, removal and disposal of excavated materials, curing, protection, and all labor, materials tools, equipment and incidentals necessary to complete the work as specified herein.
- (B) **WIRE FABRIC REINFORCEMENT FOR PORTLAND CEMENT CONCRETE PAVEMENT, BASE AND ALLEY REPAIR.** The unit of measure for Wire Fabric Reinforcement for Portland Cement Concrete Pavement, Base and Alley Repair will be the square yard. The actual number of square yards measured complete in place will be paid for at the contract unit price per square yard, which payment will include all labor, materials, tools, equipment and incidentals necessary to complete the work as specified herein.
- (C) **ANCHOR BOLTS – PAVING.** The unit of measure of Anchor Bolts-Paving will be each. The actual number of anchor bolts complete in place will be paid for at the contract unit price per each, which payment will include drilling of holes, and all labor, materials, tools, equipment and incidentals necessary to complete the work as specified herein.